**LEGRAND’S ENVIRONMENTAL COMMITMENTS**

- **Incorporate environmental management into our industrial sites**
  Of all Legrand sites worldwide, over 85% are ISO 14001-certified (sites belonging to the Group for more than five years).

- **Offer our customers environmentally friendly solutions**
  Develop innovative solutions to help our customers design more energy efficient, better managed and more environmentally friendly installations.

- **Involve the environment in product design and provide informations in compliance with ISO 14025**
  Reduce the environmental impact of products over their whole life cycle.
  Provide our customers with all relevant information (composition, consumption, end of life, etc.).

**REFERENCE PRODUCT**

<table>
<thead>
<tr>
<th>Function</th>
<th>Allow the power supply up to 2000A with a IP68 protection degree in industrial and tertiary buildings, along 1 meter for a reference service life of 20 years, in compliance with the harmonised standards IEC 61439-6.</th>
</tr>
</thead>
</table>

Reference Product:

- ZU-65281006R, 5 x ZU-65280156R, 2 x ZU-65280326R, 2 x ZU-65280426R, ZU-65281016R, 4 x ZU-65202023R, 8 x ZU-65202032R, 6 x ZU-6MLD4F05R, 4 x ZU-6MLD4R05R, 6 x ZU-65200001R, 6 x ZU-65200002R

Zucchini RCP busbar - copper conductors - 2000 A

The company reserves the right to change specifications and designs without notice. All illustrations, descriptions, dimensions and weights in the document are for guidance and cannot be held binding on the company.

**PRODUCTS CONCERNED**

The environmental data is representative of the following products: the total Zucchini RCP copper conductors busbar offer, as presented in all relevant catalogues (list available on request at the Customer Service).
CONSTITUENT MATERIALS

This Reference Product contains no substances prohibited by the regulations applicable at the time of its introduction to the market. It respects the restrictions on use of hazardous substances as defined in the RoHS directive 2011/65/EU.

<table>
<thead>
<tr>
<th>Total weight of Reference Product</th>
<th>87.48 Kg (all packaging included)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plastics as % of weight</td>
<td>Metals as % of weight</td>
</tr>
<tr>
<td>Thermoset</td>
<td>41.6%</td>
</tr>
<tr>
<td>PET</td>
<td>&lt; 0.1%</td>
</tr>
<tr>
<td>PBT</td>
<td>&lt; 0.1%</td>
</tr>
<tr>
<td>Polyethylene</td>
<td>&lt; 0.1%</td>
</tr>
<tr>
<td>SBS rubber</td>
<td>&lt; 0.1%</td>
</tr>
<tr>
<td>Other plastics</td>
<td>0.1%</td>
</tr>
<tr>
<td>Total plastics</td>
<td>42.1%</td>
</tr>
</tbody>
</table>

Estimated recycled material content: 13% by mass.

MANUFACTURE

This Reference Product comes from sites that have received ISO14001 certification.

DISTRIBUTION

Products are distributed from logistics centres located with a view to optimize transport efficiency. The Reference Product is therefore transported over an average distance of 780 km by road from our warehouse to the local point of distribution into the European market. Packaging is compliant with European directive 2004/12/EU concerning packaging and packaging waste. At their end of life, its recyclability rate is 92% (in % of packaging weight).

INSTALLATION

For the installation of the product, only standard tools are needed.

USE

Under normal conditions of use, this product requires no servicing, no maintenance or additional products.
END OF LIFE

The product end-of-life factors are taken into account during the design phase. Dismantling and sorting of components or materials is made as easy as possible with a view to recycling or failing that, another form of reuse.

- Recyclability rate:
  Calculated using the method described in technical report IEC/TR 62635, the recyclability rate of the product is estimated at 57%. This value is based on data collected from a technological channel operating on an industrial basis. It does not pre-validate the effective use of this channel for the end of life of this product.
  Separated into:
  - metal materials (excluding packaging) : 45 %
  - packaging (all types of materials) : 12 %

ENVIRONMENTAL IMPACTS

The evaluation of environmental impacts examines the stages of the Reference Product life cycle: manufacturing, distribution, installation, use and end-of-life. It is representative from products marketed and used in Europe, in compliance with the local current standards.

For each phase, the following modelling elements were taken in account:

<table>
<thead>
<tr>
<th>Phase</th>
<th>Modelling Elements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacture</td>
<td>Materials and components of the product, all transport for the manufacturing, the packaging and the waste generated by the manufacturing.</td>
</tr>
<tr>
<td>Distribution</td>
<td>Transport between the last Group distribution centre and an average delivery point in the sales area.</td>
</tr>
<tr>
<td>Installation</td>
<td>The end of life of the packaging and of the components provided for the busbar installation.</td>
</tr>
</tbody>
</table>
| Use                  | • Product category: passive product.  
                         • Use scenario: non-continuous operation for 20 years at 30% of rated load, during 30% of the time. This modelling duration does not constitute a minimum durability requirement.  
| End of life          | The default end of life scenario maximizing the impacts. |
| Software and database used | EIME V5 and its database «CODDE-2015-04» |
## SELECTION OF ENVIRONMENTAL IMPACTS

<table>
<thead>
<tr>
<th>Impact</th>
<th>Total for Life cycle</th>
<th>Raw material and manufacture</th>
<th>Distribution</th>
<th>Installation</th>
<th>Use</th>
<th>End of life</th>
</tr>
</thead>
<tbody>
<tr>
<td>Global warming</td>
<td>1.04E+03 kgCO₂ eq.</td>
<td>2.46E+02 kg</td>
<td>3.40E+00 kg</td>
<td>7.03E-01</td>
<td>7.85E+02 kg</td>
<td>76%</td>
</tr>
<tr>
<td>Ozone depletion</td>
<td>2.28E-04 kgCFC-11 eq.</td>
<td>3.76E-05 kg</td>
<td>6.88E-09 kg</td>
<td>3.14E-09</td>
<td>1.91E-04 kg</td>
<td>83%</td>
</tr>
<tr>
<td>Acidification of soils and water</td>
<td>6.41E+00 kgSO₂ eq.</td>
<td>4.43E-01 kg</td>
<td>1.53E-02 kg</td>
<td>3.09E-03</td>
<td>5.93E+00 kg</td>
<td>93%</td>
</tr>
<tr>
<td>Water eutrophication</td>
<td>7.37E-01 kg(P₂O₅) eq.</td>
<td>4.90E-01 kg</td>
<td>3.51E-03 kg</td>
<td>1.67E-03</td>
<td>2.22E-01 kg</td>
<td>30%</td>
</tr>
<tr>
<td>Photochemical ozone formation</td>
<td>3.38E-01 kgC₄H₄ eq.</td>
<td>5.55E-02 kg</td>
<td>1.08E-03 kg</td>
<td>2.23E-04</td>
<td>2.81E-01 kg</td>
<td>83%</td>
</tr>
<tr>
<td>Depletion of abiotic resources - elements</td>
<td>5.73E-02 kgSb eq.</td>
<td>5.72E-02 kg</td>
<td>1.36E-07 kg</td>
<td>2.96E-08</td>
<td>3.58E-05 kg</td>
<td>1%</td>
</tr>
<tr>
<td>Total use of primary energy</td>
<td>1.83E+04 MJ</td>
<td>4.64E-03 kg</td>
<td>4.55E+01 kg</td>
<td>9.10E+00</td>
<td>1.35E+04 kg</td>
<td>74%</td>
</tr>
<tr>
<td>Net use of fresh water</td>
<td>1.09E+01 m²</td>
<td>8.87E+00 kg</td>
<td>3.04E-04 kg</td>
<td>1.23E-04</td>
<td>2.05E+00 kg</td>
<td>19%</td>
</tr>
<tr>
<td>Depletion of abiotic resources - fossil fuels</td>
<td>1.15E+04 MJ</td>
<td>3.34E+03 kg</td>
<td>4.77E+01 kg</td>
<td>9.77E+00</td>
<td>8.08E+03 kg</td>
<td>70%</td>
</tr>
<tr>
<td>Water pollution</td>
<td>1.05E+05 m³</td>
<td>7.13E+04 kg</td>
<td>5.59E+02 kg</td>
<td>1.10E+02</td>
<td>3.29E+04 kg</td>
<td>31%</td>
</tr>
<tr>
<td>Air pollution</td>
<td>2.52E+05 m³</td>
<td>2.18E+05 kg</td>
<td>1.39E+02 kg</td>
<td>3.47E+01</td>
<td>3.37E+04 kg</td>
<td>13%</td>
</tr>
</tbody>
</table>

The values of the 27 impacts defined in the PCR-ed3-EN-2015 04 02 are available in the digital database of pep-ecopassport.org website.

The environmental impacts reported in this document refer to 1 meter of installation. To determine the environmental impacts of the installed system is necessary to multiply the above values for the total installation length.

The environmental impacts referred to 1 meter of installation, for systems with different nominal current and sections, are proportional to the total mass for Manufacturing, Distribution, Installation and End of life phases, whereas the Use phase environmental impacts are proportional to the dissipated power. The total system impact is determined by the total installation length.

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Webiste: [www.legrand.com](http://www.legrand.com)